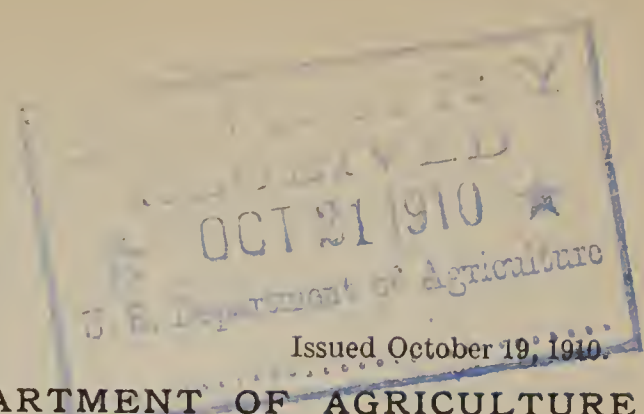


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UNITED STATES DEPARTMENT OF AGRICULTURE
FOREST SERVICE

HENRY S. GRAVES, Forester

October Field Program, 1910

This program of field work and assignments in the Forest Service is issued quarterly on the fifteenth day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed and reference to projects for which plans have not been matured are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

OFFICE OF THE FORESTER

HENRY S. GRAVES, Forester.

ALBERT F. POTTER, Associate Forester.

HERBERT A. SMITH, Editor; GEORGE B. SUDWORTH, Dendrologist; EUGENE S. BRUCE, Expert Lumberman; D. D. BRONSON, General Inspector.

ACCOUNTS

Division of Accounts and Disbursements (Forest Service Branch).

M. E. FAGAN, Chief of Office of Accounts; E. A. MELZAR, Assistant Chief.

OPERATION

JAMES B. ADAMS, Assistant Forester, in charge; CLYDE LEAVITT, Assistant Forester; GEORGE G. ANDERSON, Assistant in Office Methods.

GEOGRAPHY—FRED G. PLUMMER, Chief.

ATLAS—G. B. BRUCE.

DRAFTING—C. A. KOLB.

PHOTOGRAPHY—A. G. VARELA.

MAINTENANCE—GEORGE A. BENTLEY, Chief.

SILVICULTURE

WILLIAM T. COX, Assistant Forester, in charge (in the field); A. K. CHITTENDEN, Acting Assistant Forester.

STATE AND PRIVATE COOPERATION—J. G. PETERS, Chief; J. H. FOSTER, Assistant Chief.

CONNECTICUT—Preparation of report on second-growth hardwood stands, in cooperation with the State Forester—E. H. Frothingham.

NORTH CAROLINA—Examination of forest conditions and collection of yield-table data for second-growth stands in cooperation with North Carolina Geological and Economic Survey—J. S. Holmes, W. M. Moore, and E. D. Clark, Chapel Hill.

NORTHEASTERN STATES—Study of red spruce in second-growth stands—L. S. Murphy and E. D. Fletcher.

SOUTHERN STATES—Study of Appalachian species, with special reference to yield of second-growth stands—W. W. Ashe.

Study of cottonwood in second-growth stands in the Mississippi Valley—A. W. Williamson, Cairo, Ill.

SILVICS—RAPHAEL ZON, Chief (in the field); S. T. DANA, Assistant Chief (in the field); G. DE S. CANAVARRO, Acting Chief.

General—Basket willow study—G. N. Lamb.

MEASUREMENTS—W. B. BARROWS.

LIBRARY—Miss H. E. STOCKBRIDGE.

GRAZING

A. F. POTTER, Associate Forester, in charge (in the field); L. F. KNEIPP, Assistant Forester; WILL C. BARNES, Inspector of Grazing (in the field).

Forage investigations; compilation of data—F. V. Coville, Botanist, Bureau of Plant Industry, in charge, Washington, D. C.; investigation of methods of range control and restoration of overgrazed ranges, James T. Jardine, Deputy Forest Supervisor, Washington, D. C.; Arthur T. Sampson, Plant Ecologist, Washington, D. C. (detailed to Bureau of Plant Industry under instructions of F. V. Coville, Botanist).

LANDS

JAMES B. ADAMS, Assistant Forester, in charge; O. C. MERRILL, Chief Engineer;
F. H. FOWLER, Assistant Engineer.

OCCUPANCY—W. W. DYAR, in charge.

CLAIMS—J. I. PARKER, in charge.

PRODUCTS

WM. L. HALL, Assistant Forester, in charge, Madison, Wis.

FOREST PRODUCTS LABORATORY—(In cooperation with the University of Wisconsin, Madison, Wis.) MCGARVEY CLINE, Director; H. S. BRISTOL, Assistant Director; HOWARD F. WEISS, Assistant Director.

ENGINEERING—ROLF THELEN, in charge.

MAINTENANCE—WM. H. KEMPFER, in charge.

CHEMISTRY—E. BATEMAN, in charge.

Experiments to determine the practicability of revising commercial specifications for turpentine—A. W. Schorger.

Researches on the tannin content of forest trees—F. W. Kressman.

Study of the analysis and grading of creosotes—E. Bateman.

PULP AND PAPER—H. E. SURFACE, in charge.

Experiments on the suitability of various woods for paper pulp—H. E. Surface; assistants, J. C. Lawrence, E. L. Leasman, J. J. Lang, and Frank Blaine.

Installation and operation of ground wood pulp laboratory, Wausau, Wis.—John H. Thickers.

TIMBER PHYSICS—H. D. TIEMANN, in charge.

Study of methods of conditioning wood—H. D. Tiemann.

Dead-load bending tests—H. E. McKenzie.

Determinations of specific heat of wood and of specific gravity of wood substance—Frederick Dunlap.

Studies of microscopic features of woods and resin production—S. Kirsch.

Microscopic study of tyloses in wood—Miss Eloise Gerry.

Hygroscopicity experiments—H. E. McKenzie.

TIMBER TESTS—J. A. NEWLIN, in charge.

Standard tests on maple, red oak, and ash—F. J. Hallauer; assistant, T. Lyons.

Analysis of impact tests—J. A. Newlin; assistant, T. R. C. Wilson.

Effect of water solutions of mercuric chloride and bicarbonate of soda on the strength of shortleaf pine—T. R. C. Wilson.

WOOD DISTILLATION—L. F. HAWLEY, in charge.

Refining and grading of wood turpentine—L. F. Hawley.

Methods of turpentine analysis—L. F. Hawley; assistant, E. Bateman.

Experiments in distillation of resinous wood—L. F. Hawley; assistant, R. C. Palmer.

WOOD PRESERVATION—F. M. BOND, in charge.

Preservation of cross-ties from decay in cooperation with the Chicago, Milwaukee and St. Paul Railroad—F. M. Bond.

Resistance of different woods to injection with preservatives—H. F. Weiss.

Fungicidal properties of coal-tar creosote fractions—C. H. Teesdale.

Comparative efficiency of various wood preservatives in cooperation with their manufacturers—L. Witt.

Durability tests on insulator pins in cooperation with the Camp Manufacturing Company—F. M. Bond.

The efficiency of various constituents of coal tar creosote in protecting piling—C. H. Teesdale.

PATHOLOGY (in cooperation with the Bureau of Plant Industry)—C. J. HUMPHREY, in charge.

Collection of wood-destroying fungi and data relative to a timber-disease survey of the United States—C. J. Humphrey.

Study of wood-destroying fungi in pure culture to determine the factors governing their growth and mode of dissemination—C. J. Humphrey.

WOOD UTILIZATION—H. S. SACKETT, in charge, Fisher Building, Chicago, Ill. [The figures in the studies below indicate the number of the project.]

Study of the wood-using industries of Illinois (4)—R. E. Simmons, Fisher Building, Chicago, Ill.

Collection of wholesale lumber prices—Franklin H. Smith, Fisher Building, Chicago, Ill.

Study of woods which may be used as substitutes for the southern junipers in the manufacture of lead pencils (14)—H. S. Sackett, Fisher Building, Chicago, Ill.

Study of the woods which may be used in the manufacture of bobbins and shuttles (16)—H. S. Sackett, Fisher Building, Chicago, Ill.

Study of the methods of hickory manufacture and utilization (21)—C. F. Hatch, Fisher Building, Chicago, Ill.

Study of the suitability of short lengths of cypress for use in the manufacture of tobacco boxes and butter tubs—R. E. Simmons, Fisher Building, Chicago, Ill.

Study of the suitability of incense cedar for use in the manufacture of cigar boxes—Franklin H. Smith, Fisher Building, Chicago, Ill.

Study of the effect of freight rates on the disposition of low-grade lumber—H. S. Sackett, Fisher Building, Chicago, Ill.

Study of the fiber box industry and its effect on the wooden box industry—Franklin H. Smith, Fisher Building, Chicago, Ill.

Preparation of reports upon the uses of the principal commercial woods—Hu Maxwell, Fisher Building, Chicago, Ill.; W. L. Hall, Madison, Wis.

Study of the substitution of other materials for wood in various industries—Hu Maxwell, Fisher Building, Chicago, Ill.

WASHINGTON OFFICE—O. T. SWAN, in charge.

DISTRICT 1

Montana, northeastern Washington, northern Idaho, northwestern South Dakota, northern Michigan, northern Minnesota, and southwestern North Dakota. Office Hammond Block, Missoula, Mont.

W. B. GREELEY, District Forester; F. A. SILCOX, Associate District Forester.

LAW—Office of the Solicitor (Forest Service Branch). HAROLD H. CLARKE, Assistant to the Solicitor and Acting Law Officer.

ACCOUNTS—JOHN A. URBANOWICZ, District Fiscal Agent.

OPERATION—J. P. MARTIN, Assistant District Forester; E. W. KRAMER, District Engineer.

MAINTENANCE, R. J. MOORE.

SILVICULTURE—R. Y. STUART, Assistant District Forester; O. M. BUTLER, Assistant District Forester.

TIMBER SALES, Assistant District Foresters in Silviculture.

IDAHO—Reconnaissance, Kaniksu National Forest—M. H. Wolff, Coolin; assistants, R. A. Hungerford, H. W. Horton, and J. B. Somers.

MONTANA—Reconnaissance, Deerlodge National Forest—A. A. Saunders, Anaconda.

Reconnaissance, Helena National Forest—Frank Thompkins and W. F. Hale, Helena.

Reconnaissance of fire-killed timber, Blackfeet National Forest—E. M. Horton and Geo. L. Cott, Lumbermen, Kalispell.

Reconnaissance of fire-killed timber, Cabinet National Forest—J. S. Baird, Lumberman, Thompson; assistants, E. I. Terry, R. T. Ferguson, and Fred D. Davis.

Reconnaissance of fire-killed timber, Jefferson National Forest—Geo. L. Cott, Lumberman, Great Falls.

Reconnaissance of fire-killed timber, Lolo National Forest—R. P. Prichard, L. C. Stockdale, C. L. Billings, and R. Guiliat, Missoula.

PLANTING, Assistant District Foresters in Silviculture.

SILVICS, Assistant District Foresters in Silviculture. S. T. DANA and AUSTIN CARY, on special detail.

Yield tables, lodgepole stands—C. N. Whitney, Anaconda, Mont.

Yield tables, white pine stands—F. I. Rockwell, Coolin, Idaho; assistants, A. O. Benson, Herman Krauch, E. O. Buhler, O. M. Savore, and E. Mills.

COOPERATION, Bureau of Entomology.

Location of insect-infested timber and determination of methods of local control—Josef Brunner, Field Agent, Bureau of Entomology, Columbia Falls, Mont.

GRAZING—C. H. ADAMS, Assistant District Forester; W. S. PERRINE, Assistant District Forester.

LANDS—R. H. RUTLEDGE, Assistant District Forester; JOHN D. JONES, Assistant.

PRODUCTS

WOOD PRESERVATION—Construction and experimental operation of a wood-preserving plant for treating ties, mine timbers, and telephone poles, in cooperation with the Anaconda Copper Mining Company—P. R. Hicks, Butte, Mont.

Investigation of possibilities of treating fence posts and telephone poles, in connection with sales of dead timber, Helena National Forest—P. R. Hicks, Butte, Mont.

NATIONAL FORESTS

IDAHO

Beaverhead—See Montana.

Clearwater—F. A. FENN, Forest Supervisor, Kooskia (WU-N); Edw. C. Thenon, Deputy Forest Supervisor; W. B. Willey, Forest Assistant.

Coeur d'Alene—W. G. WEIGLE, Forest Supervisor, Wallace (WU-Am); Roscoe Haines, Deputy Forest Supervisor; W. W. Morris, Forest Assistant; C. H. Gregory, Lumberman.

Kaniksu—See Washington.

Nezperce—GEO. V. RING, Forest Supervisor, Grangeville (WU-Am); J. Arthur Brown, Deputy Forest Supervisor.

Pend Oreille—J. E. BARTON, Forest Supervisor, Sandpoint (WU-Am, N, W); Edw. G. Stahl, Deputy Forest Supervisor; James R. Gillis, Forest Assistant.

MICHIGAN

Marquette }
Michigan }—S. M. HIGGINS, Acting Forest Supervisor, Au Sable (WU-Am).

MINNESOTA

Minnesota—G. E. MARSHALL, Forest Supervisor, Cass Lake (WU-Am, GN); J. St. J. Benedict, Forest Assistant.

Superior—J. A. FITZWATER, Acting Forest Supervisor, Ely (WU-GN); James A. Howarth, jr., Forest Assistant.

MONTANA

Absaroka—V. GIFFORD LANTRY, Forest Supervisor, Contact, telegraph address Livingston (WU-Am, N); John M. Bedford, Forest Assistant.

Beartooth—J. F. PRESTON, Acting Forest Supervisor, Red Lodge (WU-Am, N); Donald R. Brewster, Forest Assistant.

Beaverhead—C. K. WYMAN, Forest Supervisor, Dillon (WU-Am); Scott Leavitt, Deputy Forest Supervisor; Chas. R. Clark, Forest Assistant.

Bitterroot—W. W. WHITE, Forest Supervisor, Missoula (WU-Am, N); M. N. Stickney, Deputy Forest Supervisor; Abbott B. Silva, Forest Assistant.

Blackfeet—F. N. HAINES, Forest Supervisor, Kalispell (WU-Am, GN); R. P. McLaughlin, Deputy Forest Supervisor; J. A. Larsen, Forest Assistant.

Cabinet—RALPH H. BUSHNELL, Forest Supervisor, Thompson Falls (WU-Am, N); Claude W. Griffin, Deputy Forest Supervisor.

Custer—GLEN A. SMITH, Forest Supervisor, Ashland (WU via Crow Agency-Am, N via Forsyth); Edgar F. White, Forest Assistant.

Deerlodge—D. T. MASON, Forest Supervisor, Anaconda (P-Am, N); Harry C. Schick, Deputy Forest Supervisor; F. M. Patton, Deputy Forest Supervisor; C. N. Whitney and A. A. Saunders, Forest Assistants.

Flathead—PAGE S. BUNKER, Forest Supervisor, Kalispell (WU-Am, GN); John H. Clack, Deputy Forest Supervisor; J. L. Cobbs, Forest Assistant.

Gallatin—D. T. CONKLING, Forest Supervisor, Bozeman (WU-Am, N).

Helena—DWIGHT BUSHNELL, Forest Supervisor, Helena (WU-Am, N); J. D. Warner, Deputy Forest Supervisor; Donald Bruce and Warren F. Hale, Forest Assistants.

Jefferson—J. B. SEELY, Forest Supervisor, Great Falls (WU-Am, N); Wellman Holbrook, Deputy Forest Supervisor; Henry H. Farquhar, Forest Assistant.

Kootenai—DORR SKEELS, Forest Supervisor, Libby (WU-Am, GN); Rutledge Parker, Deputy Forest Supervisor; Webster H. Ransom and William C. Latane, Forest Assistants.

Lewis and Clark—W. H. DAUGS, Forest Supervisor, Chouteau (WU via Collins-Am, GN via Collins).

Lolo—ELERS KOCH, Forest Supervisor, Missoula (WU, P-Am, N); Thos. C. Spaulding, Deputy Forest Supervisor; E. C. Clifford, Forest Assistant.

Madison—CLIFTON W. HUDSON, Forest Supervisor, Sheridan (WU-Am, N); W. B. Piper, Deputy Forest Supervisor; Joseph W. Butler, Forest Assistant.

Missoula—D. G. KINNEY, Forest Supervisor, Missoula (WU, P-Am, N); Karl W. Woodward, Deputy Forest Supervisor; Richard C. Eggleston, Forest Assistant.

Sioux—See South Dakota.

NORTH DAKOTA

Dakota—C. A. BALLINGER, Forest Supervisor, Camp Crook, S. Dak. (WU via Bellefourche-Am via Bellefourche); H. E. Fegley, Forest Assistant.

SOUTH DAKOTA

Sioux—C. A. BALLINGER, Forest Supervisor, Camp Crook (WU via Bellefourche-Am via Bellefourche); H. E. Fegley, Forest Assistant.

WASHINGTON

Kaniksu—W. N. MILLAR, Forest Supervisor, Coolin, Idaho (WU-Am, GN); Elmer R. Brunke, Deputy Forest Supervisor; Arnold O. Benson and F. I. Rockwell, Forest Assistants.

DISTRICT 2

Colorado, Wyoming, South Dakota, Nebraska, and western Kansas. Office, Majestic Building, Denver, Colo.

SMITH RILEY, District Forester; P. G. REDINGTON, Associate District Forester.

LAW—Office of the Solicitor (Forest Service Branch). GEO. E. TROWBRIDGE, Assistant to the Solicitor and Law Officer; J. F. LAWSON, Assistant to the Solicitor and Assistant Law Officer.

ACCOUNTS—H. I. LOVING, District Fiscal Agent.

OPERATION—FRED W. MORRELL, Assistant District Forester.

MAINTENANCE, F. B. AGEER.

SILVICULTURE—S. L. MOORE, Assistant District Forester.

TIMBER SALES, Assistant District Forester in Silviculture.

PLANTING—JOHN BENTLEY, Jr.

SILVICS—C. G. BATES.

Colorado-Fremont Experiment Station. Institution of special experiments bearing on practical planting and sowing problems—C. G. Bates and Wm. D. Hayes, Manitou.

Wagon Wheel Gap Experiment Station. Streamflow and meteorological observations—C. R. Tillotson in cooperation with B. C. Kadel of the Weather Bureau, Wagon Wheel Gap.

GRAZING—J. W. NELSON, Assistant District Forester.

LANDS—C. J. STAHL, Assistant District Forester; T. W. NORCROSS, District Engineer.

PRODUCTS—H. S. BETTS, Assistant District Forester.

TIMBER TESTS—Timber-testing laboratory in cooperation with the University of Colorado, Boulder, Colo.—N. de W. Betts, in charge.

Tests on western red cedar, lodgepole pine, and Engelmann spruce telephone poles, in cooperation with the Central Colorado Power Company and the Colorado Telephone Company.

WOOD PRESERVATION—Study of wood-preservation methods for permanent improvement work on National Forests in District 2—H. S. Betts and H. M. Mason, jr., Denver, Colo.

Treatment of posts for experimental fence on Routt National Forest—H. M. Mason, jr.

WOOD UTILIZATION—Study of wood-using industries in Districts 2, 3, and 4—H. S. Betts and H. M. Mason, jr.

NATIONAL FORESTS

COLORADO

Arapaho—ARTHUR M. COOK, Forest Supervisor, Fraser (WU-Ad); Arthur T. Upson, Forest Assistant.

Battlement—JOHN W. LOWELL, Jr., Acting Forest Supervisor, Collbran (WU-WF, G); Edgar G. Polleys, Forest Assistant.

Cochetopa—EUGENE WILLIAMS, Forest Supervisor, Saguache (WU-G); Charles P. Bliss, Forest Assistant.

Gunnison—WM. R. KREUTZER, Forest Supervisor, Gunnison (WU-WF, G); E. C. Berky, Deputy Forest Supervisor.

Hayden—See Wyoming.

Holy Cross—HARRY H. FRENCH, Forest Supervisor, Glenwood Springs (WU-WF, G); Albert H. Miller, Deputy Forest Supervisor; Stephen V. Klem, Forest Assistant.

La Sal—See Utah, District 4.

Leadville—THEODORE SHOEMAKER, Forest Supervisor, Leadville (WU, P-WF, G); R. E. Clark, Deputy Forest Supervisor; J. E. Martin, Forest Assistant.

Colorado—H. N. WHEELER, Forest Supervisor, Fort Collins (WU-WF); H. B. Holroyd, Deputy Forest Supervisor; Harold C. Clark, Forest Assistant.

Montezuma—RESS PHILLIPS, Forest Supervisor, Mancos (WU-G); R. W. Allen, Deputy Forest Supervisor; Frank B. Notestein, Forest Assistant.

Pike—C. W. FITZGERALD, Forest Supervisor, Denver (WU, P-Ad, Am, G. US, WF); C. M. Granger, Deputy Forest Supervisor; W. I. Hutchinson and W. H. Mast, Forest Assistants; Monument Nursery—W. Schrader, Forest Planting Assistant, Monument.

Rio Grande—W. J. MORRILL, Forest Supervisor, Monte Vista (WU-G); Walter F. Bowers, Deputy Forest Supervisor; Jay Higgins, Forest Assistant.

Routt—J. H. RATLIFF, Forest Supervisor, Steamboat Springs (WU-Ad); P. J. Paxton, Forest Assistant.

San Isabel—J. N. LANGWORTHY, Forest Supervisor, Westcliffe (WU-G); M. B. Willey, Deputy Forest Supervisor; Seaward D. Smith, Forest Assistant.

San Juan, East—A. L. SWEITZER, Forest Supervisor, Pagosa Springs (WU-G).

San Juan, West—Ernest W. SHAW, Forest Supervisor, Durango (WU-G); John C. De Camp, Forest Assistant.

Sopris—JOHN McLAREN, Forest Supervisor, Aspen (WU-WF, G); Joseph H. Potts, Forest Assistant.

Uncompahgre—HOWARD S. BUSHNELL, Forest Supervisor, Delta (WU-G); L. E. Cooper, Deputy Forest Supervisor; J. H. Ramskill, Forest Assistant.

White River—JAMES A. BLAIR, Forest Supervisor, Meeker (WU-WF, G); Crosby A. Hoar, Forest Assistant.

KANSAS

Kansas—B. R. H. D'ALLEMAND, Forest Supervisor, Garden City (WU, P-WF); Garden City Nursery.

NEBRASKA

Nebraska—R. G. PIERCE, Acting Forest Supervisor, Halsey (WU-Ad); Halsey Nursery—L. Besley and C. R. Bechtle, Forest Planting Assistants.

SOUTH DAKOTA

Black Hills, North—PAUL D. KELLETER, Forest Supervisor, Deadwood (WU-Ad, Am); John Murdoch, jr., Forest Assistant.

Black Hills, South—R. P. IMES, Forest Supervisor, Custer (WU-Ad); G. A. Duthie, Forest Assistant.

WYOMING

Bighorn—E. N. KAVANAGH, Forest Supervisor, Sheridan (WU-Ad); Earl S. Pierce, Forest Assistant.

Bonneville, Green River—H. C. HALL, Acting Forest Supervisor, Pinedale (WU-Am).

Bonneville, Sweetwater—C. G. POOLE, Forest Supervisor, Lander (WU-Am).

Bonneville, Wind River—H. EARL FRENCH, Forest Supervisor, Dubois (WU-Am).

Medicine Bow—P. S. LOVEJOY, Forest Supervisor, Laramie (WU, P-Am); John E. Stephens, Deputy Forest Supervisor; R. A. Stretch, Forest Assistant.

Hayden—JAMES BLACKHALL, Forest Supervisor, Encampment (WU, P-Am); Roy S. Wheeler, Forest Assistant.

Shoshone—H. W. THURSTON, Forest Supervisor, Cody (WU-Ad).

Sundance—LOUIS KNOWLES, Forest Supervisor, Sundance (WU-Ad, Am).

DISTRICT 3

Arizona, Arkansas, Florida, New Mexico, and Oklahoma. Office, Strickler-Luna Building, Albuquerque, N. Mex.

A. C. RINGLAND, District Forester; E. H. CLAPP, Associate District Forester.

LAW—Office of the Solicitor (Forest Service Branch). BLAKE FRANKLIN, Assistant to the Solicitor and Law Officer; R. F. FEAGANS, Assistant to the Solicitor and Assistant Law Officer.

ACCOUNTS—J. J. DUFFY, District Fiscal Agent.

OPERATION—A. O. WAHA, Assistant District Forester; A. S. PECK, Assistant District Forester.

MAINTENANCE, W. B. BUNTON.

SILVICULTURE—T. S. WOOLSEY, Jr., Assistant District Forester; A. B. RECKNAGEL, Assistant District Forester.

ARIZONA—Reconnaissance of the Apache National Forest—Aldo Leopold, in charge; assistants, Raymond E. Marsh, Louis L. Stephenson, T. F. Wells, Springerville.

ARKANSAS—Collection of data for volume and growth study of shortleaf pine—L. L. Janes, Hot Springs.

NEW MEXICO—Reconnaissance of the Gila National Forest—Barrington Moore, in charge; assistants, A. J. Connell, H. B. Hammond, D. D. Harkness, C. M. Howell, Herman Krauch, Geo. C. Morbeck, and Dave Winbray, Silver City.

Reconnaissance of the Pecos National Forest—H. G. Calkins, in charge; assistants, Clarence Goddard, H. L. Johnson, E. D. Rogers, R. T. Ross, Robt. S. Wallace, and I. T. Yarnall, Cowles.

SILVICS, COCONINO FOREST EXPERIMENT STATION—G. A. PEARSON, in charge; assistants, H. D. Burrall, Max H. Foerster, Robert R. Hill, and Norman W. Scherer, Flagstaff, Ariz., and H. H. Greenamyre, Springerville, Ariz.

GRAZING—J. K. CAMPBELL, Assistant District Forester; JOHN KERR, Assistant District Forester.

LANDS—FRANK C. W. POOLER, Assistant District Forester, in charge.

NATIONAL FORESTS

ARIZONA

Apache—JOHN D. GUTHRIE, Forest Supervisor, Springerville (WU, P-WF); Frederick Winn, Deputy Forest Supervisor; Aldo Leopold, Forest Assistant.

Chiricahua—A. H. ZACHAU, Forest Supervisor, Portal (WU, P-WF).

Coconino—WILLARD M. DRAKE, Acting Forest Supervisor, Flagstaff (WU, P-WF); J. C. Kircher, Forest Assistant.

Coronado—ROBERT J. SELKIRK, Forest Supervisor, Tucson (WU, P-WF); Robert L. Rogers, Deputy Forest Supervisor; Frederick R. Starr, Forest Assistant.

Crook—T. T. SWIFT, Forest Supervisor, Safford (WU-WF).

Garcés—ROBERT J. SELKIRK, Forest Supervisor, Tucson (WU, P-WF); Robert L. Rogers, Deputy Forest Supervisor.

Prescott—C. H. HINDERER, Forest Supervisor, Prescott (WU-WF); J. C. McNelty, Deputy Forest Supervisor.
Sitgreaves—A. J. MACKEY, Forest Supervisor, Snowflake (WU, P-WF); Chas. H. Jennings, Deputy Forest Supervisor; William J. Duppert, Forest Assistant.
Tonto—R. G. WILLSON, Forest Supervisor, Roosevelt (WU-WF).
Tusayan—STANTON G. SMITH, Forest Supervisor, Williams (WU, P-WF); E. H. Crabb, Deputy Forest Supervisor; Gordon T. Backus, Forest Assistant.
Zuni—See New Mexico.

ARKANSAS

Arkansas—D. W. ADAMS, Forest Supervisor, Hot Springs (WU-WF); S. A. Chappell, Deputy Forest Supervisor; C. J. Heller, Forest Assistant.
Ozark—FRANCIS KIEFER, Forest Supervisor, Harrison (WU-WF); Ralph C. Huey, Deputy Forest Supervisor.

FLORIDA

Choctawhatchee } —I. F. ELDREDGE, Forest Supervisor, De Funiak Springs; W. F. Ocala } Hill, Deputy Forest Supervisor.

NEW MEXICO

Alamo—C. C. HALL, Forest Supervisor, Alamogordo (WU, P-WF); R. F. Balthis, Deputy Forest Supervisor.
Carson—ROSS McMILLAN, Forest Supervisor, Antonito, Colo. (WU-G); Harry C. Hall, Deputy Forest Supervisor.
Chiricahua—See Arizona.
Datil—W. H. GODDARD, Forest Supervisor, Magdalena (WU, P-WF); Robert L. Deering, Forest Assistant.
Gila—W. H. B. KENT, Forest Supervisor, Silver City (WU-WF); Don P. Johnston, Deputy Forest Supervisor; Barrington Moore, Forest Assistant; Fort Bayard Nursery—H. C. Turner, Forest Planting Assistant.
Jemez—FRANK E. ANDREWS, Forest Supervisor, Santa Fe (WU, P-WF); B. M. Thomas and A. D. Read, Deputy Forest Supervisors; Charles D. Faunce, Forest Assistant.
Lincoln—J. A. KINNEY, Forest Supervisor, Capitan (WU, P-WF).
Manzano—W. R. MATTOON, Forest Supervisor, Albuquerque (WU, P-WF); James F. Mullen, Deputy Forest Supervisor.
Pecos—THOS. R. STEWART, Forest Supervisor, Santa Fe (WU, P-WF); Hugh G. Calkins, Deputy Forest Supervisor; Las Gallinas Nursery—A. Hedricks, Forest Planting Assistant.
Zuni—W. R. MATTOON, Forest Supervisor, Albuquerque (WU, P-WF); James F. Mullen, Deputy Forest Supervisor.

OKLAHOMA.

Wichita—FRANK RUSH, Game Warden, in charge, Cache (WU-WF).

DISTRICT 4

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Forest Service Building, Ogden, Utah.

E. A. SHERMAN, District Forester; FRANKLIN W. REED, Associate District Forester.

LAW—Office of the Solicitor (Forest Service Branch). W. C. HENDERSON, Assistant to the Solicitor and Law Officer; A. W. JENSEN, Assistant to the Solicitor and Assistant Law Officer.

ACCOUNTS—Q. R. CRAFT, District Fiscal Agent.

OPERATION—A. C. MCCAIN, Assistant District Forester.

MAINTENANCE, FELIX T. MOORE.

SILVICULTURE—L. L. WHITE, Assistant District Forester.

TIMBER SALES, Assistant District Forester in Silviculture.

ARIZONA—Compiling data and preparation of map, Kaibab reconnaissance—Nils Eckbo and Lester E. Hitchcock, Ogden, Utah.

IDAHO—Reconnaissance Salmon National Forest—Lincoln Crowell, in charge; assistants, Wm. Twaddell, jr., Wm. Sparhawk, and Samuel B. Locke.

Reconnaissance of Targhee National Forest—C. E. Dunston; assistants, John Riis, Herman Work, Douglas Hood, H. B. Moris, and L. H. Kooyumjian.

Reconnaissance of fire-killed timber, Palisade National Forest—S. S. Stewart, in charge; assistant, James B. Saxton.

UTAH—Examination of proposed timber sales on La Sal National Forest—D. M. Lang.

PLANTING, J. M. FETHEROLF.

UTAH—Field planting, Wasatch National Forest—Robert Rosenbluth and Dana Parkinson.

SILVICS, E. R. HODSON.

Collection of data for volume and yield-growth study of western yellow pine, Weiser National Forest—Reese Taylor.

GRAZING—HOMER E. FENN, Assistant District Forester; G. G. BENTZ, Assistant District Forester.

LANDS—T. C. HOYT, Assistant District Forester, in charge; A. C. Chewning, Assistant.

SUPPLY DEPOT—A. M. SMITH, Property Clerk.

PROPERTY AUDIT—J. G. FALCK, Property Auditor.

NATIONAL FORESTS

ARIZONA

Dixie—See Utah.

Kaibab—JOHN H. CLARK, Forest Supervisor, Kanab, Utah (WU-WF); Daniel K. Judd, Deputy Forest Supervisor.

IDAHO

Boise—E. GRANDJEAN, Forest Supervisor, Boise (WU-Am); M. S. Benedict, Deputy Forest Supervisor.

Cache—See Utah.

- Caribou**—N. E. SNELL, Forest Supervisor, Idaho Falls (WU-Am); James H. Johnson, Grazing Assistant.
- Challis**—DAVID LAING, Forest Supervisor, Challis (WU-Am).
- Idaho**—J. E. ROTHERY, Acting Forest Supervisor, McCall (WU-P).
- Lemhi**—C. I. HUDDLE, Forest Supervisor, Mackay (WU-Am).
- Minidoka**—WM. MCCOY, Forest Supervisor, Oakley (WU-Am).
- Palisade**—DAN S. PACK, Forest Supervisor, St. Anthony (WU-Am); Ulrich C. Pogge, Deputy Forest Supervisor; Charles A. Bean, Deputy Forest Supervisor.
- Payette**—GUY B. MAINS, Forest Supervisor, Emmett (WU-Am); Frank J. Ryder, Deputy Forest Supervisor.
- Pocatello**—J. F. BRUINS, Acting Forest Supervisor, Pocatello (WU-Am); A. L. Brower, Forest Assistant; Pocatello Nursery—P. T. Wrensted, Forest Ranger.
- Salmon**—JAMES M. RYAN, Forest Supervisor, Salmon (WU-Am); John A. Pearson, Deputy Forest Supervisor; Irwin W. Cook, Forest Assistant.
- Sawtooth**—C. N. WOODS, Forest Supervisor, Hailey (WU-Am); H. G. McPheters, Deputy Forest Supervisor.
- Targhee**—DAVID BARNETT, Forest Supervisor, St. Anthony (WU-Am); Chester B. Morse, Deputy Forest Supervisor.
- Weiser**—J. B. LAFFERTY, Forest Supervisor, Weiser (WU-Am); W. M. Campbell, Deputy Forest Supervisor; A. E. Oman, Forest Assistant.

NEVADA

- Humboldt**—C. SYDNEY TREMEWAN, Forest Supervisor, Elko (WU-WF); W. W. Blakeslee, Deputy Forest Supervisor.
- Moapa**—THOMAS J. COLLINS, Acting Forest Supervisor, Las Vegas (WU-WF).
- Nevada**—R. F. MATHIAS, Forest Supervisor, Ely (WU-WF); Rudolph Dieffenbach, Forest Assistant.
- Toiyabe**—JAMES L. PELTON, Acting Forest Supervisor, Austin (WU, P-WF); Herbert Graff, Deputy Forest Supervisor.

UTAH

- Ashley**—W. M. ANDERSON, Forest Supervisor, Vernal (WU-WF).
- Cache**—CLINTON G. SMITH, Forest Supervisor, Logan (WU-Am); John Riis, Deputy Forest Supervisor.
- Dixie**—JOHN RAPHAEL, Forest Supervisor, St. George (WU-WF).
- Fillmore**—WM. HURST, Forest Supervisor, Beaver (WU-WF); George C. Thompson, Deputy Forest Supervisor.
- Fishlake**—CARL B. ARENTSON, Acting Forest Supervisor, Salina (WU-WF); Oluf G. Nielson, Deputy Forest Supervisor.
- La Sal**—HENRY A. BERG, Forest Supervisor, Moab (WU-WF).
- Manti**—C. L. SMITH, Forest Supervisor, Ephraim (WU-WF); Ernest Winkler, Deputy Forest Supervisor; Parley Christiansen, Grazing Assistant; F. T. McLean, Forest Assistant.
- Minidoka**—See Idaho.
- Nebo**—H. F. STUDLEY, Acting Forest Supervisor, Nephi (WU-WF).
- Pocatello**—See Idaho.

Powell—GEO. H. BARNEY, Forest Supervisor, Escalante (WU-WF).

Sevier—O. C. SNOW, Forest Supervisor, Panguitch (WU-WF).

Uinta—W. I. PACK, Forest Supervisor, Provo (WU-WF); W. Jones Bowen, Grazing Assistant.

Wasatch—E. H. CLARKE, Forest Supervisor, Salt Lake City (WU, P-Am, WF);
Wasatch Nursery—N. J. Fetherolf, Forest Planting Assistant.

WYOMING

Ashley—See Utah.

Caribou—See Idaho.

Targhee—See Idaho.

Teton—R. E. MILLER, Forest Supervisor, Jackson (WU-Am).

Wyoming—JAMES E. JEWELL, Forest Supervisor, Afton (WU-Am); L. J. Phelan, Deputy Forest Supervisor; Glidden J. Barstow, Grazing Assistant; John E. Ingram, Forest Assistant.

DISTRICT 5

California and southwestern Nevada. Office, First National Bank Building, San Francisco, Cal.

F. E. OLMSTED, District Forester; COERT DUBOIS, Associate District Forester.

LAW—Office of the Solicitor (Forest Service Branch). H. P. DECHANT, Assistant to the Solicitor and Law Officer.

ACCOUNTS—F. C. THOMPSON, District Fiscal Agent.

OPERATION—ROY HEADLEY, Assistant District Forester.

MAINTENANCE, M. R. Tillotson.

SILVICULTURE—T. D. WOODBURY, Assistant District Forester.

TIMBER SALES, Assistant District Forester in Silviculture.

Supervision of important timber sales on the Plumas National Forest—Patrick Kennedy, Quincy, Cal.

Investigations of timber trespass on the Shasta National Forest—C. H. Ensign, Lumberman, San Francisco, Cal.

Investigations of timber trespass on the Tahoe National Forest—J. C. Elliott, Nevada City, Cal.

Inspection of silvicultural work with special reference to direct seeding on the Tahoe and Modoc National Forests—Louis Margolin, Forest Examiner, San Francisco, Cal.

SILVICS, Assistant District Forester in Silviculture.

Study of tree diseases in the California National Forests—E. P. Meinecke, Consulting Pathologist, San Francisco, Cal.

Study of insect-infested timber—John M. Miller, Forest Ranger, Northfork, Cal.

GRAZING—JOHN H. HATTON, Assistant District Forester; M. B. ELLIOTT, Assistant District Forester.

LANDS—L. A. BARRETT, Assistant District Forester, in charge.

PRODUCTS—C. S. SMITH, Assistant District Forester.

WOOD PRESERVATION—Experiments to determine the best methods of seasoning *Eucalyptus globulus* poles, logs, and lumber, in cooperation with the estate of Adolph Sutro, the Pacific Land Investment Company, the Mount Tamalpais Cemetery Association, the Parkside Realty Company, and the Pioneer Wood Company; and *Eucalyptus viminalis* logs, in cooperation with the University of California—C. Stowell Smith, San Francisco, Cal.

Installation and operation of a portable treating plant in Long and Honey Lake Valleys, Lassen County—C. A. Kupfer.

Preservative treatment of telephone poles for permanent improvement, Sierra and California National Forests—C. Stowell Smith.

Study of condition of mine timbers in California—C. Stowell Smith, San Francisco, Cal.

Estimate of amount of dead and down bigtree timber available for pencil manufacture on the Sierra National Forest—C. Stowell Smith.

Investigation into the supply and availability of canyon live oak for manufacturing purposes on the Stanislaus National Forest—A. K. Armstrong.

Experiments to determine the relative resistance to marine wood borers of different species of untreated timber and of Douglas fir treated by various preservatives and coatings—A. K. Armstrong, San Francisco, Cal.

NATIONAL FORESTS

CALIFORNIA

Angeles—R. H. CHARLTON, Forest Supervisor, Los Angeles (WU, P-WF); Ernest B. Long, Deputy Forest Supervisor; J. M. Grant, Forest Expert, in charge of planting operations; Serope Y. Parnay, Forest Planting Assistant, San Bernardino.

California—D. P. GODWIN, Acting Forest Supervisor, Willows (P-WF); S. W. Strothman, Forest Assistant.

Cleveland—H. A. E. MARSHALL, Forest Supervisor, San Diego (WU, P-WF); Percy L. Day, Deputy Forest Supervisor; F. L. Rickey, Planting Assistant.

Eldorado—EVAN W. KELLEY, Acting Forest Supervisor, Placerville (WU-WF).

Inyo—A. H. HOGUE, Forest Supervisor, Bishop (WU-WF); Jas. B. Berry, Forest Assistant.

Kern—W. J. RUSHING, Acting Forest Supervisor, Bakersfield (WU-WF).

Klamath—W. B. RIDER, Forest Supervisor, Yreka (WU-WF); J. R. Hall, Deputy Forest Supervisor; Shirley W. Allen, Forest Assistant.

Lassen—L. A. H. KLING, Forest Supervisor, Red Bluff (P-WF); J. C. La Plant, Deputy Forest Supervisor.

Modoc—C. E. RACHFORD, Forest Supervisor, Alturas (P-WF); Vernon L. Bonner, Deputy Forest Supervisor; Belknap C. Goldsmith, Forest Assistant.

Mono—See Nevada.

Monterey—RAYMOND TYLER, Forest Supervisor, Salinas (WU-WF).

Plumas—D. N. ROGERS, Forest Supervisor, Quincy (WU-WF); W. G. Durbin, Deputy Forest Supervisor; R. S. Maddox and Geo. R. Orr, Forest Assistants.

Santa Barbara—WILLIS M. SLOSSON, Forest Supervisor, Santa Barbara (P-WF); H. G. Merrill, Deputy Forest Supervisor.

Sequoia—ALLAN B. PATTERSON, Forest Supervisor, Hot Springs, Tulare County (WU via Portersville-WF); W. C. Burton, Deputy Forest Supervisor; S. W. Wynne, Forest Assistant.

Shasta—R. F. HAMMATT, Forest Supervisor, Sisson (P-WF); Philip T. Harris, Deputy Forest Supervisor; John D. Coffman and Stewart B. Show, Forest Assistants.

Sierra—C. H. SHINN, Forest Supervisor, Northfork (WU via Fresno-WF); M. A. Benedict, Deputy Forest Supervisor; Ernest G. Dudley, Forest Assistant.

Stanislaus—R. W. AYRES, Forest Supervisor, Sonora (WU-WF); J. V. Wulff and Louis T. Larsen, Forest Assistants.

Tahoe—R. L. P. BIGELOW, Forest Supervisor, Nevada City (WU-WF); M. B. Pratt, Deputy Forest Supervisor; J. Alfred Mitchell and Wm. H. Gallaher, Forest Assistants.

Trinity—F. H. HAFLEY, Forest Supervisor, Weaverville (WU-WF); W. A. Huestis, Deputy Forest Supervisor; Ernest V. Jotter, Forest Assistant.

NEVADA

Inyo—See California.

Mono—WM. M. MAULE, Forest Supervisor, Gardnerville (WU-WF); T. C. West, Deputy Forest Supervisor; Rex King, Forest Assistant.

Tahoe—See California.

DISTRICT 6

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

C. S. CHAPMAN, District Forester; GEO. H. CECIL, Associate District Forester.

LAW—Office of the Solicitor (Forest Service Branch). W. F. STALEY, Assistant to the Solicitor and Law Officer; D. F. MCGOWAN, Assistant to the Solicitor and Assistant Law Officer.

ACCOUNTS—A. H. COUSINS, District Fiscal Agent.

OPERATION—C. H. FLORY, Assistant District Forester; W. E. HERRING, District Engineer.

MAINTENANCE, SHIRLEY BUCK.

SILVICULTURE—F. E. AMES, Assistant District Forester; C. S. JUDD, Assistant District Forester.

TIMBER SALES, Assistant District Foresters in Silviculture; F. B. KELLOGG, Forest Assistant.

OREGON—Examination of proposed sale areas on the Crater National Forest—D. L. McKay, Scaler, Medford.

WASHINGTON—Scaling on the Olympic National Forest—Edwin C. Erickson, Scaler, Olympia.

PLANTING, J. F. KÜMMEL.

SILVICS, T. T. MUNGER.

GRAZING—T. P. MACKENZIE, Assistant District Forester.

LANDS—C. J. BUCK, Assistant District Forester.

PRODUCTS—J. B. KNAPP, Assistant District Forester.

TIMBER TESTS—Testing laboratory in cooperation with the University of Washington, Seattle, Wash.—O. P. M. Goss, in charge; assistants, C. W. Zimmerman and H. P. Wyckoff.

WOOD PRESERVATION—Experimental operation of an open-tank treating plant in cooperation with the University of Washington Forest School—O. P. M. Goss, Seattle, Wash.

WOOD UTILIZATION—Study of the market for and uses of forest products on the Olympic Peninsula in the State of Washington—J. B. Knapp and C. W. Dunning, Portland, Oreg.

Study of the wood-using industries of Oregon and Washington in cooperation with the State conservation associations—H. B. Oakleaf, Portland, Oreg.

Mill-scale study of Douglas fir—H. B. Oakleaf, Portland, Oreg.

NATIONAL FORESTS

ALASKA

Chugach—W. A. LANGILLE, Forest Supervisor, Ketchikan (SC, U. S. A., WU-AP, Am); Lage Wernstedt and Bruce Hoffman, Forest Assistants.

Tongass—W. A. LANGILLE, Forest Supervisor, Ketchikan (SC, U. S. A., WU-AP, Am); Lage Wernstedt, Forest Assistant.

CALIFORNIA

Crater—See Oregon.

Siskiyou—See Oregon.

OREGON

Cascade—C. R. SEITZ, Forest Supervisor, Eugene (WU, P-WF); J. R. Harvey, Deputy Forest Supervisor; E. B. Starr and B. Frank Heintzleman, Forest Assistants.

Crater—M. L. ERICKSON, Forest Supervisor, Medford (WU, P-WF); S. S. Swenning, Deputy Forest Supervisor; H. D. Foster and William E. White, Forest Assistants.

Deschutes—A. S. IRELAND, Forest Supervisor, Prineville (PT & T-Am via Shaniko, WF via Shaniko); B. F. Johnson, Deputy Forest Supervisor; Reginald R. Chaffee, Forest Assistant.

Fremont—GILBERT D. BROWN, Forest Supervisor, Lakeview (WU via Klamath Falls-WF); Norman G. Jacobson, Forest Assistant.

Malheur—CY. J. BINGHAM, Forest Supervisor, John Day (WU via Baker City-Am, WF via Baker City); D. B. Reynolds, Deputy Forest Supervisor; Herbert J. Miles, Forest Assistant.

Oregon—T. H. SHERRARD, Forest Supervisor, Portland (WU, P-Am, WF, N); Ralph S. Shelley, Deputy Forest Supervisor; W. B. Osborne, Max Rothkugel, and Robie M. Evans, Forest Assistants.

- Siskiyou**—R. L. FROMME, Forest Supervisor, Grants Pass (WU, P-WF); N. F. McDuff, Deputy Forest Supervisor; H. Haefner, Forest Assistant.
- Siuslaw**—A. E. COHOON, Forest Supervisor, Eugene (WU, P-WF); David E. Fitton, Deputy Forest Supervisor; R. E. Dickson, Forest Assistant.
- Umatilla**—THOS. E. CHIDSEY, Forest Supervisor, Heppner (WU-Am); George A. Bright, Forest Assistant.
- Umpqua**—S. C. BARTRUM, Forest Supervisor, Roseburg (WU, P-WF); E. H. McDaniels and Wilmot W. G. Hastings, Forest Assistants.
- Wallowa**—H. W. HARRIS, Forest Supervisor, Wallowa (WU-Am); S. A. Brown, Deputy Forest Supervisor; Charles Black, Grazing Assistant.
- Wenaha**—See Washington.
- Whitman**—HENRY IRELAND, Forest Supervisor, Sumpter (WU via Baker City-Am, WF via Baker City); M. L. Merritt and B. T. Harvey, Forest Assistants.

WASHINGTON

- Chelan**—G. W. MILHAM, Forest Supervisor, Chelan (PT & T-Am, GN via Wenatchee); D. S. Rice, Deputy Forest Supervisor; H. M. Coan, Forest Assistant.
- Chelan (Okanogan)**—H. M. HALE, Forest Supervisor, Okanogan.
- Columbia**—H. O. STABLER, Forest Supervisor, Portland, Oreg. (WU, P-Am, WF, N); Homer Ross, Deputy Forest Supervisor; A. R. Wilcox, Forest Assistant.
- Colville**—C. C. REID, Forest Supervisor, Republic (WU, P-Am, GN); F. W. Cleator, Deputy Forest Supervisor; Edward W. Headsten, Forest Assistant.
- Olympic**—R. E. BENEDICT, Forest Supervisor, Olympia (WU-Am, GN, N); A. A. Parker, Deputy Forest Supervisor; Harold P. Gilky and William H. Gibbons, Forest Assistants.
- Rainier**—G. F. ALLEN, Forest Supervisor, Tacoma (WU, P-Am, N); H. L. Hurd, Deputy Forest Supervisor; E. J. Fenby and Robert G. Merritt, Forest Assistants.
- Snoqualamie**—B. P. KIRKLAND, Forest Supervisor, Seattle (WU, P-N, GN, WF); E. T. Clark, Deputy Forest Supervisor; A. G. Jackson, Forest Assistant.
- Washington**—C. H. PARK, Forest Supervisor, Bellingham (WU, P-Am, GN, N); F. H. Brundage, Deputy Forest Supervisor; Herman M. Johnson, Forest Assistant.
- Wenaha**—J. M. SCHMITZ, Forest Supervisor, Walla Walla (WU-Am, N).
- Wenatchee**—A. H. SYLVESTER, Forest Supervisor, Leavenworth (WU-Am, GN); S. A. Blakenship, Deputy Forest Supervisor; C. P. Willis, Forest Assistant.

SERVICE CHANGES

APPOINTED

- DENDROLOGY**—Dr. Charles H. Herty, Expert.
- SILVICULTURE**—Silvics: John S. Ames, Forest Assistant.
- PRODUCTS**—Franklin H. Smith, Statistician; Roger E. Simmons, Statistician; Albert H. Pierson, Statistician; Charles F. Hatch, Statistician; Fred W. Kressman, Chemist; Frank J. Hallauer, Testing Engineer; Thomas R. C. Wilson, Testing Engineer; John Laing, Paper Maker; Simon Krisch, Expert.

DISTRICT 2—Products: John C. McRae, Forest Expert.

DISTRICT 3—Silviculture: Gordon T. Backus, Forest Assistant, Tusayan National Forest.

DISTRICT 5—Operation: Forest Assistants—Sedman W. Wynne, Sequoia National Forest; Stuart B. Show, Shasta National Forest; Sylvester W. Strothman, California National Forest; Rex King, Mono National Forest; Louis T. Larsen, Stanislaus National Forest; George Raymond Orr, Plumas National Forest; William H. Gallaher, Tahoe National Forest; Ernest G. Dudley, Sierra National Forest; Jas. B. Berry, Inyo National Forest.

DISTRICT 6—Operation: Forest Assistants—Geo. A. Bright, Umatilla National Forest; Reginald R. Chaffee, Deschutes National Forest; Hamilton M. Coan, Chelan National Forest; Robert E. Dickson, Siuslaw National Forest; Robie N. Evans, Oregon National Forest; Wm. H. Gibbons, Olympic National Forest; Harold P. Gilkey, Olympic National Forest; Wilmot W. G. Hastings, Umpqua National Forest; Edward W. Headsten, Colville National Forest; B. Frank Heintzleman, Cascade National Forest; Bruce E. Hoffman, Chugach National Forest; Norman G. Jacobson, Fremont National Forest; Herman M. Johnson, Washington National Forest; Robt. G. Merritt, Rainier National Forest; Herbert J. Miles, Malheur National Forest; Wm. E. White, Crater National Forest.

Silviculture: George W. Peavy, Forest Examiner.

Lands: Thomas B. Landers, Practical Miner; E. Frank Schramm, Expert; G. F. Kay, Coal Expert.

Products: H. P. Wyckoff, Engineer in Timber Tests.

RESTORED TO THE ROLLS

PUBLICATION—Findley Burns, Forest Assistant and Chief of Publication.

SILVICULTURE—Silvics: G. de S. Canavarro, Forest Assistant

DISTRICT 1—Operation: Gilmour B. MacDonald, Forest Assistant, Helena National Forest; Elmer D. Fletcher, Deputy Forest Supervisor, assigned to Washington Office.

DISTRICT 2—Operation: C. W. Fitzgerald, Forest Supervisor, Pike National Forest.

Silviculture: Philip T. Coolidge, Forest Assistant, San Juan (W) National Forest.

DISTRICT 5—Silviculture: G. Morris Homans, Forest Assistant, Santa Barbara National Forest.

CHANGES IN DESIGNATION

DISTRICT 1—Operation: William B. Piper, from Forest Examiner to Deputy Forest Supervisor, Madison National Forest.

DISTRICT 2—Operation: E. N. Kavanagh, from Assistant District Forester to Forest Supervisor, Bighorn National Forest; Charles A. Whitney, from Deputy Forest Supervisor to Forest Ranger, San Isabel National Forest.

DISTRICT 3—Operation: Samuel J. Record, from Forest Supervisor to Forest Assistant, Arkansas National Forest; Arthur D. Read, from Forest Supervisor to Deputy Forest Supervisor, Jemez National Forest.

DISTRICT 5—Operation: Louis A. Barrett, from Forest Supervisor, Plumas National Forest, to Assistant District Forester.

TRANSFERRED

DISTRICT 3—Operation: Frederic Winn, Deputy Forest Supervisor, from Zuni National Forest to Apache National Forest; Charles H. Jennings, Deputy Forest Supervisor, from Tonto National Forest to Sitgreaves National Forest; Frederick R. Starr, Forest Assistant, from Carson National Forest to Coronado National Forest.

Silviculture: Forest Assistants—Lionel L. Janes, from Alamo National Forest to Arkansas National Forest; Henry L. Johnson, from Crook National Forest to Pecos National Forest.

DISTRICT 4—Operation: Lawrence J. Phelan, Deputy Forest Supervisor, from Caribou National Forest to Wyoming National Forest. Forest Assistants—Lincoln Crowell, from Targhee National Forest to Salmon National Forest; Forman T. McLean, from Salmon National Forest to Manti National Forest; Rees W. Taylor, from Kaibab National Forest to Weiser National Forest; D. M. Lang, from Kaibab National Forest to La Sal National Forest; Robert Rosenbluth, from Kaibab National Forest to Wasatch National Forest; John B. Saxton and Sidney S. Stewart, from Kaibab National Forest to Palisade National Forest; John E. Ingram, from Kaibab National Forest to Wyoming National Forest.

DISTRICT 6—Operation: Herman M. Johnson, Forest Assistant, from Snoqualmie National Forest to Washington National Forest.

PROMOTED

DISTRICT 5—Operation: David P. Godwin, from Assistant Forest Ranger to Deputy Forest Supervisor, California National Forest.

DISTRICT 6—Operation: Harry M. Hale, from Deputy Forest Supervisor to Forest Supervisor, Chelan (O) National Forest; Thomas M. Hunt, from Assistant Forest Ranger to Deputy Forest Supervisor, Chugach National Forest.

LEAVE WITHOUT PAY

SILVICULTURE—State and Private Cooperation: John M. Briscoe, Forest Assistant. Silvics: G. de S. Canavarro, Forest Assistant.

PRODUCTS—Edwin Sutermeister, Expert.

DISTRICT 1—Operation: Frederick A. Gaylord, Forest Assistant, Pend Oreille National Forest.

DISTRICT 2—Operation: Thos. C. Hatton, Deputy Forest Supervisor, Sopris National Forest; Stanley B. Hall, Forest Assistant, Gunnison National Forest; Geo. W. Hendry, Forest Assistant, Medicine Bow National Forest.

Silviculture-Silvics: Albin G. Hamel, Forest Assistant.

DISTRICT 3—Lands: H. Norton Johnson, Expert Miner, District Office.

DISTRICT 5—Operation: Allan H. Hodgson, Forest Supervisor, California National Forest; Wm. G. Howard, Forest Assistant, Sierra National Forest.

FURLOUGHED

PRODUCTS—Arthur B. Strouph, Collaborator.

RESIGNED

PUBLICATION—Everett W. Smith, Expert.

SILVICULTURE—Edward E. Carter, Assistant Forester.

PRODUCTS—Thos. J. Coyle, Laboratory Assistant in Timber Tests.

DISTRICT 1—Operation: Chapin Jones, Forest Assistant, Kaniksu National Forest; Ambrose J. Norton, Lumberman, Missoula National Forest.

DISTRICT 2—Operation: H. R. Shockley, Forest Supervisor, Nebraska National Forest; Wm. E. Jackson, Forest Supervisor, Bighorn National Forest; Foster Steele, Deputy Forest Supervisor, Bonneville (GR) National Forest.

PRODUCTS—Henry V. Blank and Alfred D. Wolff, jr., Engineers in Timber Tests.

DISTRICT 4—Operation: Charles P. Wilber, Forest Assistant, Salmon National Forest.

Property Audit: Harry B. Cramer, Chief of Record.

APPOINTMENT TERMINATED

SILVICULTURE—Silvics: Arthur H. Graves, Expert.

DISTRICT 5—Silviculture: John Lafon, jr., Lumberman, Shasta National Forest.

DISMISSED

OPERATION—Willie J. Hall, Assistant Forest Ranger, Black Hills (N) National Forest; Lyman H. Goddard, Assistant Forest Ranger, Montezuma National Forest.

DISTRICT 5—Operation: John S. Reid, Assistant Forest Ranger, Trinity National Forest.

It is fitting that record should be made in the Field Program of the Forest Service temporary employees lost in fighting the great fires of August. The bodies of the killed were of necessity interred temporarily where they were found. All unclaimed by family or friends will, as soon as suitable arrangements can be made, be given burial in graves within inclosures upon National Forest administrative sites. Members of the Forest Service are contributing to provide for this and for marking the graves with simple but permanent memorials. The identified dead numbered 23, as follows:

Barrett, A. M.
Blodgett, G. A.
Cameron, Geo. W.
Donahue, Jimmy.
Elliott, W. J.
Fease, Geo.
Ferre, Joe.
Grogan, Patrick.

Hanson, Andrew.
Harris, J.
Jackson, Harry.
Learmouth, Wm.
Lever, Lary.
Plant, J. B.
Sanders, Frank.
Shoman, Louis.

Smith, George.
Smith, Upton B.
Strong, Geo.
Ustlo, L.
Weigert, Oscar.
Williams, E.
Woods, Richard.

Thirty-five unidentified bodies found are believed to be those of the following men:

Anderson, K.	Ekhoen, Ralph.	Murphy, Ed.
Attene, Venis (Viettone, Jene?).	Ellefson, O.	Norton, W. F.
Baker, H. W.	Flynn, W.	Phwiser, M.
Bing, O.	Frye, Edward.	Polk, W.
Bruno, D. (Dominick?).	Harp, J.	Ruzick, J.
Casey, Wm.	Hill, Jaek.	Schwartz, L.
Christensen, Chris.	Hoss, John.	Siphers, H.
Denden, Joe.	Hull, Sam.	Sketchell, Frank.
Denten, Jim.	Johnson, Gus.	Smith, Harry.
Dilo, M.	Johnson, L.	Stevens, J.
Dunn, Ed.	Masterson, Frank.	Swick, F. D.
	McGurk, George.	Taylor, Glenn.

Ten bodies of fire fighters of unknown names were found, as follows: On Big Creek, Coeur d'Alene National Forest, 8; on Placer Creek, Coeur d'Alene National Forest, 1; near Stevens Peak, Coeur d'Alene National Forest, 1.

From the Setser Creek crew, Coeur d'Alene National Forest, James Kerr is reported missing.

With deep regret announcement is made of the death of Mr. William M. Aiken, District Law Officer at Missoula, Mont. Mr. Aiken had gone upon a hunting trip, and his body was found by a searching party on October 5. He had been a sufferer for some years from chronic nephritis, incurred in the military service of the United States, but the particulars regarding the cause of death have not yet been received in Washington. Mr. Aiken was born April 28, 1881, at Perthshire, Miss. He served in the United States Army, both in the continental United States and in the Philippine Islands, from January, 1902, to September, 1906. Before entering the army he began the study of law, and after leaving the service entered the Yale School of Law, from which he was graduated with honor in June, 1908. He entered the Forest Service as a Law Examiner August 1, 1908, and when the district office at Missoula was established, December 1, 1908, he was assigned to that office as District Law Officer. His ability and integrity won immediate recognition, and his untimely death is a shock to his associates in the Forest Service.

Mr. William Hovey Polleys, of Missoula, Mont., was killed early in August by the falling of a tree while he was engaged in fighting a forest fire on the Lolo National Forest. He was a volunteer and had worked efficiently in bringing the fire under control. The members of the crew of which he was in charge were in imminent danger from a falling tree and were saved by him at the sacrifice of his own life. Mr. Polleys' service as a volunteer in a time of public need and his heroism in giving his own life to save the lives of others entitle him to a place on the roll of men who have died for humanity.

With deep regret announcement is made of the death, on July 4, of William H. Hazzard, Forest Ranger, on the Leadville National Forest.

SERVICE NOTES FOR OCTOBER

These notes contain instructions and necessary information for Forest officers, and will therefore be carefully read and kept on file for reference.

OFFICE OF THE FORESTER

DENDROLOGY

Regarding California Chaparral Nomenclature—

A nomenclature of chaparral has never been adopted by the Forest Service except in the case of some species listed among the trees. The matter will be taken up at a later date, but in the meantime the following memorandum will be found useful, as it covers some cases in California in which there has been confusion:

ARCTOSTAPHYLOS MANZANITA.....	not <i>Arctostaphylos pungens</i> .
ACTAEA ARGUTA.....	not <i>Osmorrhiza nuda</i> .
BACCHARIS CONSANGUINEA.....	not <i>Aplopappus parryi</i> .
CEANOTHUS THYRSIFLORUS.....	not <i>Ceanothus andersoni</i> .
CERCOCARPUS PARVIFOLIUS.....	not <i>Cercocarpus parvifolius betulaeifolius</i> .
ERICAMERIA MICROPHYLLA.....	not <i>Aplopappus ericoides</i> .
LOTUS GLABER.....	not <i>Hosackia glabra</i> .
RIBES MALVACEUM.....	not <i>Ribes sanguineum</i> .
SALVIA MELLIFERA.....	not <i>Audibertia stachyoides</i> .
SALVIA LEUCOPHYLLA.....	not <i>Audibertia nivea</i> .
STENOTUS LINEARIFOLIUS.....	not <i>Aplopappus linearifolius</i> .
SYMPHORICARPUS RACEMOSUS....	not <i>Symphoricarpus dumosus</i> .

Full Data with Dendrological Specimens—

Many dendrological specimens are sent without full data to the Forest Service to be identified. It is important to give the fullest information possible regarding all specimens, whether of wood, bark, leaves, or fruit. When the specimen is collected from a tree or shrub the time and place of collection, altitude, character of soil, aspect, approximate age and diameter, and the part of the plant from which the specimen is taken should be given. Wood specimens should be accompanied by a statement as to whether they were obtained from a pile of lumber, articles of furniture, structural materials, finished woodwork, etc. It is particularly important to state where the wood was cut.

LAW

Damages for Destruction of Young Growth Awarded—

On September 7, 1910, the case of the United States *v.* C. O. Bailey, receiver for the Missouri Pacific and Northwestern Railway, and the Title Guarantee Surety Company involving a demand by the United States of the value of timber killed and injured by the negligence of the railway company, and the cost of reseeded certain of the area burned over, was submitted to the jury in the district of South Dakota. The original demand was for \$3,728.85. The jury returned a verdict in favor of the United States for \$3,659.40, including \$1,094.40 for the cost of replanting the area burned over, together with the cost of caring for the trees until they should reach the age of those destroyed.

The testimony of the Government established this cost at \$12 per acre, which amount was awarded by the jury. This case is of especial interest because it is the first instance in which the United States has demanded and received the cost of replanting an area burned over by the negligence of a railway company.

Mining Claim Does not Permit Saloon Location—

Since the publication of the last Field Program and on August 24 last, Judge Dietrich, of the district of Idaho, has announced his decision on the demurrer of the defendants in the case of the United States against Basil Rizzinelli and Charles Rizzinelli, for maintenance, in violation of the rules and regulations of the Secretary of Agriculture, of saloons on unperfected mining claims, within the Coeur d'Alene National Forest. In this decision the court holds that the location of a mining claim in a National Forest does not authorize the maintenance thereon of saloons or any other forms of business not properly connected with the development of the mines and in violation of the regulations promulgated by the Secretary of Agriculture for the proper protection and administration of the National Forests.

Measure of Damage in Innocent Timber Trespass Case—

On September 7, 1910, the Attorney-General advised the United States attorney for the district of Montana that the measure of damages in an innocent timber trespass is the value of the timber after it was cut at the place where it was cut, following the rule laid down in the case of the United States *v.* St. Anthony Railroad Company (192 U. S., 524). There had been diversity of opinion as to the proper measure of damages in such cases, it having been thought that the Wooden-ware case (106 U. S., 432) established the measure of damages in such cases to be the stumpage value of the timber.

As to Refunds in Supposed Timber Trespass Cases—

On June 8, 1910, Blake Franklin, esq., Assistant to the Solicitor at Albuquerque, N. Mex., advised the District Forester that a refund could not be legally made by the Secretary of Agriculture under the act of March 4, 1907 (34 Stats., 1256), or under any other statute, of moneys deposited in the Treasury in settlement of a supposed timber trespass on an unperfected homestead entry within the limits of a National Forest upon it being later discovered that the timber or portion of it was lawfully cut. Mr. Franklin's opinion was reviewed by the solicitor on August 17, 1910, and was by him sustained. On September 8, 1910, the Forester requested the Solicitor to submit the matter to the Comptroller of the Treasury for his decision. The submission was duly made, and on September 28 the Comptroller advised the Secretary that there is no authority of law for the proposed refund.

Fire Trespass Case—Complaint Filed—

On July 12, 1910, complaint was filed in the circuit court of the United States for the eighth district of Colorado against the Denver, Northwestern and Pacific Railway Company to recover \$5,440.04 damages caused by fire alleged to have been set by sparks from the company's engines.

Arrested for Grazing Trespass—

During the latter part of August three herders in the employ of William McKean were arrested for willfully driving sheep on the Black Hills National Forest. One of the herders escaped; the other two were bound over for the grand jury and admitted to bail. Warrant was issued for the herder who escaped, and steps have been taken to secure his removal from Wyoming.

Grazing Trespass Case Settled—

Fifty dollars and forty cents was received from H. S. and Frank Crittenden, the amount of damages assessed for driving cattle in excess of their permit on the Kansas National Forest.

United States v. Joe Calscarta—

The defendant was arrested April 27, 1910, for unlawfully driving and herding sheep on the Weiser National Forest. He was taken before United States Commissioner H. J. Devaney, at Cambridge, on April 28, 1910. He waived examination and was held to await the action of the United States district court, central division. The United States attorney filed an information against the defendant September 15, 1910. Defendant pleaded guilty and was fined \$100.

United States v. Anestaria Gabiala—

The defendant was arrested April 27, 1910, and taken before United States Commissioner H. J. Devaney, at Cambridge, Idaho, the following day, charged with unlawfully herding sheep on the Weiser National Forest. He waived examination and was held to await the action of the United States district court for the central division. The United States attorney filed an information against the defendant September 15, 1910. Defendant pleaded guilty and was fined \$25.

OPERATION**Making and Posting of Signs—**

Forest officers should, as rapidly as possible, see that suitable signs are provided for all trails, roads, and ranger stations. Signs are particularly important at the forks of roads and trails, and should indicate directions and distances to other points. Board signs lettered black on a white background have been found generally preferable. Stencils can be used advantageously in the preparation of such signs. In some cases the stencils are used only to outline the letters in lead pencil, black paint being applied after the stencil is removed. Stencils and index fingers for use in the preparation of signs may be secured upon requisition from the Property Clerk at Ogden.

No Fountain Pens at Ogden—

Fountain pens will no longer be kept in stock or furnished upon requisition by the Property Clerk at Ogden.

Tin or Granite Ware for Camp Use—

The purchase of tableware for use in camp or in the field should, as far as practicable, be limited to articles of tin or granite ware.

Omission of Initialing on Carbons Sent for Information—

Hereafter, carbon copies of signed letters sent for information will bear no initialing, but will be duplicates of the original letters and not of the file carbons. This rule will not apply to carbons of letters sent by the District Foresters to Washington for signature, which should be initialed for the files of the Washington office.

Requests for Binding Forest Atlas Folios—

Supervisors who desire one copy of their Forest Atlas Folio bound with stiff covers, to be used as an office record, may make request on the District Forester, who will forward the requests to Washington. It will not be necessary to send folios. These will be furnished in the Washington office, will be bound by the Public Printer, and shipped direct to the supervisor.

Correcting Forest Atlas Folios—

The first edition of the Forest Atlas Folios is practically completed. The data for some of the folios were excellent and will not require revision for some time. In other cases the data were inaccurate and have been corrected by Forest officers in the field. Whenever, in the judgment of a supervisor, sufficient data have been collected for, and the needs of his Forest justify a new edition of the folio, he should arrange to send to the Forester, through the District Forester, the corrections and additions to the sheets, together with his recommendations on the following points: (1) What contour interval should be used? (2) Should alienations be shown or omitted? (3) Should mining claims be shown or omitted? (4) How many folios are needed on the Forest?

In the case of many folios it will be necessary to print only a few corrected sheets. Supervisors should use their judgment and not request the publication of new sheets where the corrections are unimportant or when new data are expected soon and more corrections can be made by delaying the publication. If the supervisor contemplates requesting a second edition of his folio he should make special effort during the coming field season to collect as much of the new data as possible and issue instructions to his rangers, making it one of their duties to correct the sheets in their Districts. Corrections should be plainly made with Forest Atlas correction ink or with red ink. The correction ink is five parts of Pomeroy's yellow and one part of Carter's crimson writing fluid, and is furnished by the Property Clerk.

Changes in Boundaries and Areas of National Forests—

Since the issuance of the July Field Program proclamations have been signed changing National Forest boundaries as follows:

In District 2 by proclamation signed August 8, 6,075 acres in Wyoming were eliminated from the Hayden Forest; by proclamation signed August 10, 51,024 acres were eliminated from the Pike Forest, and 42,340 acres from the Leadville Forest, Colorado; by proclamations signed August 15, 348,681 acres were eliminated from the Montezuma, 18,810 acres from the San Juan, 64,849 acres from the Rio Grande, and 18,550 acres were transferred from the Montezuma to the San Juan; by proclamation signed August 24, 101,602 acres were eliminated from the Routt Forest, and by proclamation signed September 26, 2,561 acres from the Arapaho.

In District 3 by proclamation signed August 24, 23,966 acres were added to and 68,415 acres eliminated from the Sitgreaves National Forest, Arizona; 110,033 acres were added to the Carson Forest, New Mexico, and 26,880 acres were added and 128,736

eliminated from the Jemez Forest, New Mexico. By proclamation signed September 26, 400,911 acres were eliminated from the Arkansas National Forest, Arkansas; 7,040 acres from the Tonto, Arizona; 52,940 acres were transferred from the Crook to the Tonto; 4,480 acres were eliminated from, and 149,800 acres added to, the Crook Forest from the public domain, together with an increase of 134,400 acres by transfer from the Apache Forest. Aside from this transfer to the Crook area the Apache was further reduced by the elimination of 70,376 acres.

In District 4, by proclamations signed August 23, 10,880 acres were eliminated and 18,330 acres were added to the Kaibab Forest, Arizona. By proclamation signed September 26, 55,680 acres were eliminated and 27,409 acres were added to the Powell National Forest, Utah.

In District 5, by proclamations signed July 28, the boundaries of the Tahoe and Plumas National Forests, California, were changed and the Eldorado Forest was established from 809,910 acres, formerly included within the Tahoe Forest, and an addition of 31,701 acres from the public domain. The area of the reduced Tahoe was changed by the addition of 125,761 acres, the elimination of 8,678 acres, and the transfer to the Plumas Forest of 19,485 acres. Aside from this transfer the additions to the Plumas Forest comprise 31,192 acres and the elimination of 1,920 acres.

No proclamations were signed changing the boundaries of National Forests in Districts 1 and 6.

To date the total area eliminated from the National Forests since the agreement between the Secretary of the Interior and the Secretary of Agriculture is 3,600,285 acres. The additions made amount to 1,501,522 acres. It is estimated that when the process of reclassification of the National Forests is completed the total eliminations will amount to more than 6,000,000 acres and the total additions outside the six States of the Northwest to slightly more than 3,000,000 acres.

Distribution of Proclamations and Diagrams—

Following is the present procedure in issuing proclamations and diagrams: One hundred diagrams with proclamations are filed in the Washington office of the Forest Service and the same number are forwarded to the State Department and to the General Land Office. One hundred also are forwarded to the District Forester and the same number to the supervisor of the Forest concerned. Of the diagrams without proclamations 100 copies are retained for use of the Washington office and one-half the balance of the supply printed (amounting to either 100, 150, or 200 copies, according to the urgency of the demand) are forwarded to the District Forester, and the other half to the supervisor. In case the supervisor's supply of diagrams becomes exhausted he is expected to make requisition upon the District Forester. In case the supply of the District Forester becomes exhausted and additional copies of the diagrams, either with or without proclamations, are needed, requisition should be made upon the Forester.

Supplies of Proclamations and Diagrams—

Supervisors needing additional copies of proclamations or of National Forest diagrams should requisition them from the District Office. The District offices will maintain a supply of proclamations and diagrams, submitting requisitions to the Forester.

LANDS

Procedure in Conduct of Claims Cases—

Interpretation given certain paragraphs of the Joint Order of June 25, 1910, of Secretaries Ballinger and Wilson, in reference to claims contests, in the field conferences between representatives of the General Land Office, Department of the Interior, and of the Office of the Solicitor and the Forest Service, Department of Agriculture, September 28, 1910:

The first sentence of paragraph 1 is as follows:

1. Forest Supervisors will submit all reports made by Forest officers to the District Forester, who, when satisfied with said reports, will transmit the same to the Secretary of Agriculture; the Secretary of Agriculture will forward such reports to the Secretary of the Interior.

By the prevailing practice, when the report submitted to the Secretary of Agriculture is deemed to be favorable to the claimant, the "report" thereafter submitted to the Secretary of the Interior is in the form of a brief letter stating that the Forest Service has no objection to the issuance of patent. This is not in accordance with the Joint Order, which requires the submission of *all* reports to the Secretary of the Interior.

The second sentence of paragraph 1 is as follows:

The Commissioner of the General Land Office will return said reports to the proper Chief of Field Division for notation upon his records and for his approval in the event he finds the same sufficient; and should the Chief of Field Division find such report insufficient to warrant proceedings to hearing or the taking of other appropriate action, he will return the same with endorsements, asking that the Department of Agriculture make such additional investigation as may be necessary, or in the event he deems it advisable he will cause an agent of the General Land Office to make such additional investigation.

Under this when a Chief of Field Division finds the report of the Forest officer insufficient to warrant adverse proceedings, he may communicate directly with the District officers of the Forest Service and thus expeditiously obtain the desired evidence.

Paragraph 3 is as follows:

3. In all hearings affecting lands or claims within a National Forest, the Chief of Field Division or a special agent of the General Land Office, *and* the District Law Officer, or Assistant District Law Officer, will be entered of record as appearing on behalf of the Government. The Chief of Field Division or special agent acting as attorney for the Government in any such case will control the Government's side of the case in any matter as to which counsel are unable to agree, subject to any direction that may be given by the Commissioner of the General Land Office, in case the matters of difference are of such importance as to be presented to him for action.

This establishes the relation of associate counsel between the Chiefs of Field Division and the Assistants to the Solicitor in claims cases affecting National Forest lands, the Chief of Field Division occupying the position of senior counsel. It was suggested in this connection that the time for the Assistant to the Solicitor to enter his "appearance" should be at the hearing, since it would be impossible in some cases to know before that time which one of the Assistants to the Solicitor would be able to be present.

Paragraph 4 is as follows:

4. In all Government cases before registers and receivers involving lands or claims within a National Forest the Chief of Field Division and the District Law Officer shall each be served with notice of all motions, orders, and decisions required to be noticed under the rules in cases of private contests. The proper law officers of the Department of Agriculture shall also have a right of appeal from any decision by the Commissioner of the General Land Office, and to file motion for review in the Department, or take other like action in the same manner as a private contestant; and shall receive like notices of proceedings and decisions.

This gives the Forest Service the status of a private contestant upon whom, and also by whom, all legal papers in claims contests and appeals must be properly served. It also imposes on the local land officers the duty of furnishing the Assistants to the Solicitor copies of all orders and decisions. It was decided that the right of appeal, herein accorded to the Department of Agriculture, was applicable only to decisions which were final in deciding a case on the merits, and that a refusal by the Commissioner of the General Land Office to order a hearing, after the Secretary of Agriculture has procured all the evidence available, on the ground that the report submitted is insufficient, is in effect a decision on the merits, and therefore appealable.

Conflict of Mining Claim with a June 11, 1906, Application—

(Circular letter of September 16, 1910.)

Where land covered by a June 11 application is also covered by a mineral application, the June 11 application should be suspended until the claim has been examined by a mining expert, a report made, and the validity of the mining claim passed upon by the Department of the Interior. In cases in which a mineral application has not been made, and in which existing mining locations do not appear to have been made in good faith, if the land is of undoubted agricultural value and more valuable for agriculture than for Forest purposes, the applicant should be informed that part of the land is covered by a mineral location, and that the listing of the land as agricultural will have no bearing upon the determination of the questions which may arise in a contest before the Interior Department between mineral and agricultural claimants; and the applicant should be asked whether, under these circumstances, he desires to exercise his homestead right on the land. If the answer is in the affirmative, the land should be recommended for listing.

Claims, Relinquishment—

(Circular letter of August 3, 1910.)

The question has been brought up recently as to the advisability of authorizing exceptions to the provisions of Service Order 40 in instances where relinquishments of entries are desired which cover land needed for ranger-station purposes, and especially where the Forest Service expects to pay the claimant for the improvements on the land.

The wording of the service order allows of no discretionary exceptions on the part of Forest officers, and such exceptions can only be made with the approval of the Forester. Therefore when an exception should be made to this order, recommendations should be submitted to the Forester with the reasons therefor in each specific case.

Disposition of Final-Proof Notices—

(Circular letter of September 8, 1910.)

The instructions contained in telegram of January 5, 1910, in the following words:

Claims procedure changed as follows: Take no action whatever on proof notices where reports are favorable, and send Forester single copy favorable report with Secretary's letter of transmittal. Procedure in questionable cases unchanged.

are hereby superseded and hereafter supervisors will return to registers and receivers all notices of final proof received from them.

Where no adverse facts are known by the supervisor at the time as a basis for protesting the issuance of final certificate, he will note the following indorsement on the final-proof notice:

No objection at this time to issuance of final certificate—right in law to future contest not waived should facts develop warranting charges; report submitted [or will be submitted] in due course to the Secretary of Agriculture.

Where grounds exist for protesting issuance of final certificate the notice will be returned to the Register and Receiver indorsed:

Protest; report submitted [or will be submitted] in due course to the Secretary of Agriculture.

When the notice is returned to the Register and Receiver, the supervisor will file in the case folder a record of the notice and the action taken.

(The above circular is amended by adding the following paragraph:)

The notices must in each case be returned prior to the date advertised for the submission of final proof. In the report submitted reference will be made to the notice of final proof, the indorsement made and the date thereof, and of its return to the Register and Receiver.

Settlement: Effect of Eliminations upon Lands Listed—

On October 6, in a letter to J. S. Todd, Whittier, Cal., the Commissioner of the General Land Office rendered the following decision:

Referring to the petition signed by yourself and others, requesting that the lands listed by the Department of Agriculture under your application, under the Act of June 11, 1906 (34 Stat., 233), be not opened at this time, I now have to state that inasmuch as the lands listed upon the applications of the following named applicants are within an area which has been eliminated from the National Forest area by Presidential proclamation of July 1, 1910, the lands so listed will not be restored to entry under the Act of June 11, 1906, for the reason that they will, after due publication, be opened to entry under the various public land laws. * * *

The dates for the opening of the said lands to settlement and entry, respectively, have not as yet been set, but they will be opened to settlement 30 days prior to the date on which entries may be made thereof. In view, however, of the fact that the lands above described were listed with this Department and are a matter of record, the applicants will, in accordance with the decision of this Office dated November 28, 1908, to the Register and Receiver at Durango, Colorado, be allowed a preference right of entry of the lands so listed. Such applications should, however, be filed in the local land office prior to the date on which the lands will become open to entry under the various public land laws.

Papers to Accompany Drafts of List Letters—

Drafts of letters submitted to the Forester proposing to list for an applicant under the act of June 11, 1906, a smaller area than was applied for should be accompanied by an explanation as to why such reduced area is recommended, together with a statement that the applicant accepts the findings of the examiner and wishes to enter the tract recommended for listing.

SERVICE PUBLICATIONS ISSUED IN AUGUST, SEPTEMBER, AND
OCTOBER

Bulletin 80—The Commercial Hickories.

Circular 93—Yellow Poplar (Revised).

Circular 170—Engelmann Spruce in the Rocky Mountains.

Circular 181—Consumption of Firewood in the United States.

Circular 182—Shortleaf Pine. (Planting Leaflet.)

Circular 183—Loblolly Pine. (Planting Leaflet.)

NOTICE OF REWARD

UNITED STATES DEPARTMENT OF AGRICULTURE,

OFFICE OF THE SECRETARY,

September 23, 1910,

Hereafter, during the fiscal year ending June 30, 1911, unless otherwise ordered, and thereafter, provided Congress shall made the necessary appropriation or authorize the payment thereof, the Department of Agriculture will pay the following rewards:

First. Not exceeding \$250, and not less than \$50, for information leading to the arrest and conviction of any person, in any United States court, on the charge of willfully and maliciously setting on fire, or causing to be set on fire, any timber, underbrush, or grass upon the lands of the United States within a National Forest.

Second. Not exceeding \$100, and not less than \$25, for information leading to the arrest and conviction of any person, in any United States court, on the charge of building a fire on lands of the United States within a National Forest, in or near any forest timber or other inflammable material, and leaving said fire before the same has been totally extinguished.

Third. All officers and employees of the Department of Agriculture are barred from receiving reward for information leading to the arrest and conviction of any person or persons committing either of the above offenses.

Fourth. The Department of Agriculture reserves the right to refuse payment of any claim for reward when, in its opinion, there has been collusion or improper methods have been used to secure the arrest and conviction thereunder, and to allow only one reward where several persons have been convicted of the same offense or where one person has been convicted of several offenses, unless the circumstances entitle the claimant to a reward on each such conviction.

These rewards will be paid to the person or persons giving the information leading to such arrests and convictions upon presentation to the Department of Agriculture of satisfactory documentary evidence thereof, subject to the necessary appropriation, as aforesaid, or otherwise, as may be provided by law.

Applications for reward, made in pursuance of this notice, should be forwarded to the Forester, Washington, D. C.; but a claim will not be entertained unless presented within three months from the date of conviction of an offender.

In order that all claimants for reward may have an opportunity to present their claims within the prescribed limit, the Department will not take action for three months from date of conviction of an offender.

(Signed)

JAMES WILSON,

Secretary of Agriculture.

The above is applicable to offenses committed since July 1, 1910.

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(JULY)

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